

Workshop on Self-Assembling and Biomimetic Materials

Los Alamos
National
Laboratory

December 15-17, 1997
Los Alamos, NM

Call for Papers

**Abstract deadline:
October 1, 1997**

The latest information
is available from URL:
[http://cnls.lanl.gov/
Events/Conferences/
SelfAssembly/](http://cnls.lanl.gov/Events/Conferences/SelfAssembly/)

The left-side image is a minimum energy structure of methanethiol absorbed on gold(111). The yellow globes represent gold atoms, blue is sulfur, purple is carbon, and red is hydrogen. The right-side image is a SAM of dodecanethiol on gold.

Scope of the Workshop

Research in self-assembling hierarchically structured materials has grown considerably in recent years, encompassing a host of applications from microelectronics and photonics to biomimetic materials. This workshop provides a unique opportunity for the exchange of ideas amongst researchers at the forefront of experimental and theoretical studies in these fields. We have invited speakers from a diverse group of disciplines who develop and employ self-assembling systems for novel applications.

The objective is to develop a comprehensive overview of the field, identifying critical research directions and addressing challenges underlying new applications derived from research in these areas.

Organizing Committee:

A. R. Bishop, B. I. Swanson, T. Zawodzinski, A. N. Parikh,
K. M. Beardmore, A. S. Eberhardt, D. Q. Li

Sessions Include:

1. Mechanism, Structure, and Dynamics in Self-Assembling Systems
2. Synthetic Strategies in Self-Assembling Materials
3. Photo-Active Molecular Assemblies
4. Biomimetic Assemblies: Fundamentals
5. Biomimetic Assemblies: Applications
6. General Poster Session

A free-wheeling panel discussion on the niche applications, relative merits, and problems associated with 'soft' lithography will also be held.

Invited Speakers Include:

D. Allara, C. Chidsey, T. Marks, R. Nuzzo, N. Peyghambarian, A. Plant,
G. Stucky, S. Boxer, P. Fenter, D. Whitten, E. Delamarche, W. Knoll, and
B. Liedberg.

For more information, or to submit
an abstract for presentation, contact:

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